



*water*

an Open Access Journal by MDPI



## Agricultural Practices to Improve Irrigation Sustainability

Guest Editors:

**Prof. Dr. Patrícia Palma**

Center for Sci-Tech Research in Earth System and Energy (CREATE), Polytechnic Institute of Beja, 7800-295 Beja, Portugal

**Dr. Alexandra Tomaz**

Center for Sci-Tech Research in Earth System and Energy (CREATE), Polytechnic Institute of Beja, 7800-295 Beja, Portugal

Deadline for manuscript submissions:  
**closed (20 August 2023)**

### Message from the Guest Editors

An increase in irrigated land productivity in recent years has been achieved thanks to the technological development of agriculture; however, pressures on the world's land, soil, and water resources have also been derived. An increase in the use of plant protection products and fertilizers, the uptake of farm mechanization, or inadequate irrigation management may lead to the loss of soil health by salinization, erosion, or contamination, as well as an increase in pollution processes in surface or groundwater resources.

To ensure food security and to mitigate the effects of water scarcity resulting from climate change, it is essential to improve the efficiency and productivity of water use for crop production, while preserving natural resources from the negative environmental impact that can be associated with irrigation.

This Special Issue focuses on the available agroecological practices, deciphers which options are better, explores which soil indicators are most sensitive to irrigation practices, and assesses the advances in technology in order to improve the sustainability of irrigation agriculture with the most management actions.



[mdpi.com/si/121126](https://mdpi.com/si/121126)

**Special** issue



*water*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Dr. Jean-Luc PROBST**

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

## Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)

## Contact Us

---

Water Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/water](http://mdpi.com/journal/water)  
[water@mdpi.com](mailto:water@mdpi.com)  
[X@Water\\_MDPI](https://twitter.com/Water_MDPI)